

Calendar

Monday, March 21

2:30 p.m. Particle Astrophysics Seminar - Curia II

Speaker: T. Wiseman, Harvard University

Title: Black Holes and Extra Dimensions

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

4:00 p.m. All Experimenters' Meeting - Curia II

Special Topics: CDF Silicon Detector Damage Update and DZero Luminosity Measurement

Tuesday, March 22

3:30 p.m. DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

THERE WILL BE NO ACCELERATOR PHYSICS AND TECHNOLOGY SEMINAR TODAY

Weather



Partly Cloudy **43°/31°**

[Extended Forecast](#)

[Weather at Fermilab](#)

Current Security Status

[Secou Level 3](#)

Wilson Hall Cafe

Tevatron Achieves New Record Luminosity

On Friday at 1:20 p.m., accelerator operators achieved a record peak luminosity of $113.4 \text{ E}30 \text{ cm}^{-2}\text{sec}^{-1}$. The last record of $107.4 \text{ E}30 \text{ cm}^{-2}\text{sec}^{-1}$ was set on February 24. DZero recorded a luminosity over $100.0 \text{ E}30 \text{ cm}^{-2}\text{sec}^{-1}$ for the first time ever, measuring $105.9 \text{ E}30 \text{ cm}^{-2}\text{sec}^{-1}$.

Wanted: Summer Mentors for Science Teachers



TRAC teacher Len Bugel (right) works on the MiniBooNE horn with Eric Zimmerman. (Click on image for larger version.)

Every year a dozen or so teachers, most from local Chicago schools, spend 8 to 12 weeks at Fermilab, to participate in TRAC, a summer research program for high school science teachers. From silicon detectors for DZero to fans for CDF, in the past, teachers have worked with a Fermilab scientist on a wide range on projects, many related to the BTeV experiment. But with the recent cancellation of BTeV, finding mentors may be harder than usual this year, and the TRAC program is looking for additional mentors and projects.

Safety Tip of the Week

Break Down Your Work Assignments



An effective tool toward eliminating mishaps is to routinely think through your assignments. Break them down into individual components, think about what could go wrong, and take steps to make sure they go right. The questions below are provided to help you develop the thought process needed to accomplish this.

Task understanding - Has the task been "scoped out?" Does everyone understand their part? Are there formal procedures that should be reviewed? Have you considered a "dry run" for non-routine and high-risk activities?

Hazard evaluation - Have potential hazards been evaluated? Are precautions established? Have authorizations been secured?

Worker qualification - Are the people involved in the task properly trained and medically qualified? Does anyone have a medical condition that might prevent them from safely participating (e.g., bad back, seasonal illness, medications)?

Monday, March 21

Potato Au Gratin

Monte Cristo \$4.75

Savory Roasted Chicken Quarters \$3.75

Lasagna Bolognese \$3.75

Chicken Ranch Wrapper \$4.75

Assorted Pizza Slices \$2.75

Szechuan Style Pork Lo Mein \$4.75

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

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"Finding mentors is the hardest thing to do," said PPD's Ron Ray, who has been the TRAC coordinator for the past several years. "The teachers pay their own way to come here, and PPD pays them a weekly stipend. Being a mentor does not cost your experiment anything."

The goal of the TRAC program is to provide outstanding high school science teachers with professional scientific and engineering experiences through summer research opportunities. By working in the scientific field at Fermilab, teachers gain an increased understanding and enthusiasm for particle physics research, which they then take back to their classroom in the fall. "The teachers really love being here," Ray said. "They don't care what they do, and they really go home and tell people what a great place Fermilab is."

Harry Cheung, of PPD, has been a mentor for students and teachers for the past ten years. "Giving back to the community feels very good," Cheung said. "If we get teachers excited about the science we do here, they will take it back to their kids in the classroom." One of the teachers that Cheung mentored actually brought his class of 26 students back to Fermilab for a tour after he spent a summer here.

Fermilab employees, postdocs and users are all eligible to be mentors. If you have a summer opportunity in your experiment that would be appropriate for a TRAC teacher, contact [Ron Ray](#) or [Maxine Hronek](#) by April 15.

- Elizabeth Clements

Proper tools - Are the tools well-matched to the task? Many injuries result from trying to "make do" with whatever is convenient (e.g., short ladder). Tool selection is best done during initial scoping phase.

Safety equipment - It is likely that some safety equipment is specified in the hazard evaluation. Is it being used properly? Was something missed or has something changed that would indicate the use of different equipment or additional safety equipment?

Bystander safety - Is it OK for uninvolved people to approach the work area unimpeded? Would they be placing themselves and/or you at additional risk? Could they damage the equipment you are working on? When the task is complete, will the work area be left in a safe and functional condition?

Have a great day and let's work safely all week!

[Safety Tip of the Week Archive](#)

Correction

Yesterday's article "Dark Matter Search Marks Return of Bubble Chamber" incorrectly stated Roger Hildebrand's age. He is a young 83.

Announcements

Accelerator Update

March 16- March 18

- During this 48 hour period Operations established one store that combined with an existing store provided the experiments with approximately 30 hours and 36 minutes of luminosity
- DZero tested new luminosity counter
- NuMI intensity increasing

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

In the News

From *Interactions News Wire*, March 21, 2005

MICE to go ahead

In the quest to unravel the characteristics of the mysterious neutrino particle, millions of which pass through us undetected every day, scientists from several international universities have joined forces with UK research colleagues to build a unique engineering technology demonstrator at the Rutherford Appleton Laboratory in Oxfordshire. Known as MICE [Muon Ionisation Cooling Experiment] the experiment will prove one of the key requirements to produce intense beams of neutrinos at a dedicated Neutrino Factory to be built later this decade.

Announcing funding for the experiment Science and Innovation Minister, Lord Sainsbury said, "It is a testament to the UK's world class science and facilities that leading experimental physicists from across the globe have supported conducting a project of this calibre in the UK. The Government's investment in this experiment will provide a unique showcase of UK scientific and

Calling All NCAA Basketball Fans

Last year, *Fermilab Today* ran an [article](#) about the results of the NCAA basketball tournament among experiment collaborations, and we plan to do the same thing this year. After the championship game, *Fermilab Today* invites collaborators to send their results to [Eric Bland](#).

ICW Supply System at Casey's Pond

On Monday, March 21, the ICW Supply System at Casey's Pond will be reconfigured to operate on the 100hp pump backup system for approximately three days. This reconfiguration is necessary to allow for an electrical supply upgrade to the primary 400hp pumping system. This change will take place at 7:45 a.m. on Monday, March 21 and should be transparent to all ICW users.

Upcoming Classes

March 22 - Access 2000 Intermediate

March 23 - Excel 2000 Intermediate

March 29 & 30 - Behavioral Interviewing (two consecutive half-days)

April 5 - Access 2000 Advanced

[more information](#)

International Astronomical Union Circulars

The Fermilab Library offers subscriptions to the electronic version of the International Astronomical Union Circulars. If you are not currently subscribed, and would like to be, please send email to sllee@fnal.gov.

[more information](#)

Building Better Bones

Back by popular demand, Building Better Bones will be offered on March 23 at noon Curia-II. A brief lecture on

engineering technology. The support for using the Rutherford Appleton Laboratory in Oxfordshire is a further demonstration of the UK's position as a leading base for scientific research and innovation."

[read more](#)

Osteoporosis will be followed by a free bone scan for any woman attending the lecture. Jody Springsteen, BSN, CRRN cover osteoporosis risk factors, diagnosis and prevention.

[Upcoming Activities](#)